

INTERNATIONAL SEARCH REPORT

 International application No.
PCT/AU03/00674

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. ⁷ : B23K 9/095, B23K 9/173		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI, JAPIO and keywords: arc weld+, GMAW, electrode, wire, advance, consum+ wire feed, feed rate, regulate, control, feedback and other like terms		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,313,437 B (SOTING et al.) 6 November 2001 column 2 line 35 - column 3 line 30	1-3, 15-17
X	Patent Abstracts of Japan, JP 11-226734 A (TOSHIBA PLANT KENSETSU CO LTD) 24 August 1999 abstract	1-5, 11, 12, 15-18, 24, 25
X	Patent Abstracts of Japan, JP 11-267839 A (YASKAWA ELECTRIC CORP) 5 October 1999 abstract	15, 21, 22, 24, 25
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 2 July 2003		Date of mailing of the international search report 07 JUL 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer SUSAN PRING Telephone No : (02) 6283 2210

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent Abstract Accession No. 93-198165/25, Class P55 DE 4204661 C (WELTRON STEUERUNGS et al.) 24 June 1993 abstract	1, 2, 15
X	Derwent Abstract Accession No. 93-195323/24, Class P55 SU 1743752 A (PROGRESS WKS) 30 June 1992 abstract	1-3, 8, 11, 15- 17, 21, 24
X	Patent Abstracts of Japan, JP 60-108176 A (OSAKA DENKI KK) 13 June 1985 abstract	1-3, 8-11, 15- 17, 21-24
X	Patent Abstracts of Japan, JP 56-009062 A (MITSUBISHI ELECTRIC CORP) 29 January 1981 abstract	1-3, 8-11, 13- 17, 21-24, 26, 27
A	US 4,584,458 A (TREMBLAY et al.) 22 April 1986 see entire document	1 - 29
A	GB 2 053 762 A (BOC LIMITED) 11 February 1981 see entire document	1 - 29
A	US 4,093,844 A (FELLURE et al.) 6 June 1978 see entire document	1 - 29
A	Patent Abstracts of Japan, JP 06-047545 A (MATSUSHITA ELECTRIC IND CO LTD) 22 February 1994 abstract	1 - 29

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00674

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
US	6313437	AU	66434/98	EP	1068041	PL	335440
		SE	9700744	WO	9839130		
JP	11226734	NONE					
DE	4204661	NONE					
SU	1743752	NONE					
JP	11267839	NONE					
JP	60108176	NONE					
JP	56009062	NONE					
US	4584458	AU	32396/84	BR	8404243	CA	1216031
		EP	142915	ES	535423	ES	8506488
		JP	60106670	NO	843409		
GB	2053762	NONE					
US	4093844	CA	1079813	CH	625632	DE	2738066
		FR	2364086	GB	1562970	JP	53081154
		SE	7709064				
JP	06047545	NONE					
END OF ANNEX							

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